

Remarks:

Entry of this Preliminary Amendment is respectfully requested

Claims 1 through 64 were originally presented in this case. Claims 1 through 20, 22 through 26, and 28 through 66 are currently pending. Claims 65 and 66 have been added. Claims 21 and 27 have been cancelled without prejudice. Independent claims 1, 26, 52, and 55 have been amended in this paper. Dependent claims 18, 20, 22 through 25, 28, 29, 54, 56, 58 through 60, 62, and 63 have also been amended in this paper. No new matter has been added in this amendment.

Currently amended independent claim 1 is supported by original claims 1 and 21. Dependent claims 18, 20, and 22 through 25 have been amended to improve readability.

Currently amended independent claim 26 is supported by original claims 26 and 27. Dependent claims 28 and 29 have been amended to improved readability.

Currently amended independent claim 52 is supported by original claims 52 and 21. Claim 54 was amended to correct a typographical error.

Currently amended independent claim 55 is supported by original claims 55 and 21. Dependent claims 56, 58 through 60, and 63 have been amended to improve readability. Claim 62 has been amended to correct a typographical error.

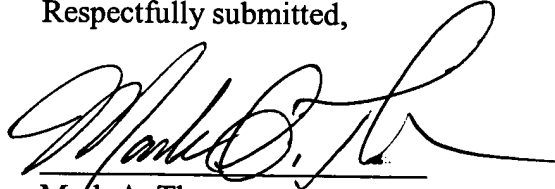
New independent claim 65 is supported, for example, by original independent claim 30 as well as by paragraph 51 of the specification. Equation 9 supports new dependent claim 66.

The Examiner is invited to contact the undersigned by telephone should there be any questions.

Date:

12/16/04

Respectfully submitted,



Mark A. Thurmon

Registry No. 39,858

PathFinder Energy Services, Inc.

15151 Sommermeyer St.

Houston, Texas 77041

(713) 996-1745 Telephone

(713) 996-1270 Facsimile

-- Applicant --